Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

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- (Cancelled) 1-3.
- A scanning apparatus according to claim 1, wherein the support assembly (Original) 4. includes a five bar spherical closed loop linkage.
- A scanning apparatus according to claim 4, wherein the linkage is (Original) 5. rotatably mounted relative to the scanner.
- A scanning apparatus according to claim 4, wherein the support assembly (Original) 6. further comprises an article holder rotatably mounted to the linkage.
- A scanning apparatus, comprising: (Original) 7.
 - a scanner having a measuring device for measuring the shape of a scanned article;
 - a linkage comprising:
 - a first ground link;
 - a second link rotatably mounted to the first link about a first axis;
 - a third link rotatably mounted to the second link about a second axis;
 - a fourth link rotatably mounted to the third link about a third axis;

a fifth link rotatably mounted to the fourth link about a fourth axis and rotatably mounted to the first link about a fifth axis;

an article holder mounted to one of the links adapted for supporting an article to be scanned exterior of a sphere defined by the linkage;

wherein the scanner and article holder are movable relative to one another to scan the surface of the article.

- 8. (Original) A scanning apparatus according to claim 7, wherein the links are adapted for moving along paths of motion that avoid the scanner beam.
- 9. (Original) A scanning apparatus according to claim 7, wherein the article holder is adjustable to accommodate a range of article shapes and sizes.
- 10. (Original) A scanning apparatus according to claim 7, wherein the article holder is rotatably mounted to the linkage.
- 11. (Original) A scanning apparatus according to claim 10, wherein the article holder further comprises a drive motor for rotating the article holder relative to the linkage.
- 12. (Original) A scanning apparatus according to claim 7, wherein the article holder is adapted for holding the article in alignment with an axis of rotation between two of the links.
- 13. (Original) A scanning apparatus according to claim 7, wherein the first ground link is rotatably mounted to a scanner support.
- 14. (Original) A scanning apparatus according to claim 7, wherein the linkage is adjustably mounted relative to the scanner to provide a third degree of freedom.
- 15. (Original) A scanning apparatus according to claim 7, wherein the article holder is adjustably mounted relative to the linkage to provide a third degree of freedom.

- 16. (Original) A scanning apparatus according to claim 14, wherein the article holder is adjustably mounted relative to the linkage to provide a fourth degree of freedom.
- 17. (Original) A scanning apparatus according to claim 7, wherein the linkage includes a first driver and a second driver.
- 18. (Original) A scanning apparatus according to claim 17, wherein the linkage mounts to an arm adjustably mounted to a scanner support and wherein the arm includes a third driver.
- 19. (Original) A scanning apparatus according to claim 17, wherein the article holder is adjustably mounted relative to the linkage and wherein the article holder includes a third driver.
- 20. (Original) A scanning apparatus according to claim 19, wherein the article holder is adjustably mounted relative to the linkage and wherein the article holder includes a fourth driver.
- 21. (Original) A scanning apparatus according to claim 1, wherein the linkage includes a first pair of symmetrical links having a first included angle.
- 22. (Original) A scanning apparatus according to claim 21, wherein the linkage includes a second pair of symmetrical links having a second included angle.
- 23. (Original) A scanning apparatus according to claim 1, wherein the linkage includes a first driver mounted to a first axis of one of the links and a second driver mounted to a second axis of the one of the links.
- 24. (Original) A scanning apparatus according to claim 1, wherein the joints include encoders in communication with a controller for coordinating actuation and movement.
- 25-32. (Cancelled)